AD-A204 563

DATE 2-8-89

TO: Information Services Branch

FROM: Computer Products Support Group DS (Init) KT (Init) L.D. (Init)

RE: DOD|SW|DK-89|005 (Report No.). Announce in GRA&I

(1)

Priority Action is Required

Attached

- ☑ Form NTIS 231.
- ☑ Form NTIS FCPC 01
- ☑ NTIS 79
- ☑ RDP (OF 272)
- ☐ Proof Listing
- ☐ Consigned Inventory Acquisition Form (Interagency Agreement Number and Split)

Process for:

K File (Data)
- ☐ Documentation
- ☐ Diskette

H File (Software)
- ☑ Documentation
- ☑ Diskette

Action

- ☐ Loan Document Form Attached
- ☑ Defense Sponsored. Acquire ADA Number
- ☐ Order Pending. Return immediately after copying necessary pages.

DTIC ELECTE S FEB 27 1989 D

Remarks

Highlight!

DIGIB COPY INSPECTED

Accesion For	
NTIS CRA&I	☑
DTIC TAB	☐
Unannounced	☐
Justification	
By 50-Dom 10-Foreign	
Distribution /	NTIS
Availability Codes	
Dist	Avail and / or Special
A-1	21

DISTRIBUTION STATEMENT A
Approved for public release; Distribution Unlimited

Computer Products Transmittal

89 2 24 036

AD-A204 563

☐ DELETE ☒ NEW ☐ REPLACE ☐ CORRECTION

NTIS COMPUTER PRODUCTS CATALOG DATA SHEET	1. ACCESSION NO.	2. CONTRIBUTING AGENCY REPORT NO. DOD/SW/DK-89/005	3. SUBJECT

4. PRODUCT *(circle one)*

DATA FILE PUBLICATION

DATA BASE REFERENCE SERVICE (SOFTWARE) MODEL, SIMULATION

5. AGENCY, BUREAU, DIVISION, AND ADDRESS

Department of Army
The Hydrologic Engineering Center, Corps of Engineers
609 Second Street
Davis, California 95616

6. PRODUCT NAME *(Use agency nomenclature)*

HMR52, Probable Maximum Storm (Eastern United States) (for microcomputers)

7. DESCRIPTORS OF PRODUCT *(Keywords, identifiers, etc.)*

*Software,
Surface Water Hydrology
Probable Maximum Precipitation
Probable Maximum Storm
Computer Program

8. DATES OF COVERAGE *(For one-time reports, use as-of-date; for software, use date and release no.)*

Version Apr 87

9. FILE SIZE IN NO. OF:

Diskettes 1 PUNCHED CARDS

10. AVAILABILITY STATEMENT - AGENCY NAME AND ADDRESS, ORDER NO., ETC. *(If NTIS sells, leave blank)*

11. PRICE INFORMATION

Price code: D99 $50.00 (domestic) $100.00 (foreign) Price includes documentation:

12. GEOGRAPHIC SCOPE

None

13. TECHNICAL REPRESENTATIVES *(List at least one for subject and one for media)*

NAME	TITLE	PHONE NO.
John Peters	Hydraulic Engineer	(916) 551-1748
Gary Brunner	Research Hydraulic Engineer	(916) 551-1748
Arlen Feldman	Sup Res Hydraulic Engineer	(916) 551-1748

14. DOCUMENTATION

☒ AVAILABLE as:

EXPECTED AVAILABILITY DATE: NA

(A)

NTIS COMPUTER PRODUCTS CATALOG DATA SHEET

15. COMPUTER PRODUCT ABSTRACT

Computer program HMR52 computes basin-average precipitation for Probable Maximum Storms (PMS) in accordance with the criteria specified in Hydrometeorological Report (HMR) No. 52 (National Weather Service, 1982). That HMR describes a procedure for developing a temporal and spatial storm pattern to be associated with the Probable Maximum Precipitation (PMP) estimates provided in HMR No. 51, "Probable Maximum Precipitation Estimates - United States East of the 105th Meridian." Data required for application of the HMR52 program are: (1) X, Y coordinates describing the river basin and subbasin watershed boundaries; (2) PMP from HMR No. 51 (NWS, 1978); and (3) storm orientation, size, centering and timing. The program computes the spatially average PMP for any of the subbasins or combinations thereof. The HMR52 computer program will optimize the storm-area size and orientation in order to produce the maximum basin-average precipitation. The user must provide the desired centering and time distribution for the storm. The HMR52 program will produce a precipitation data file which can subsequently be input to a rainfall-runoff model, such as HEC1. ...Software description: The program is written in FORTRAN for implementation on IBM/PC compatible equipment, using MS/PC DOS 2.1+ operating system. Memory requirement is 256K. Two 5¼" floppy disk drives, or one 5¼" disk drive and a 10 MB hard disk. Math coprocessor (8087, 80287, 80387) highly recommended but not required.

(KP)

16. DATA FILE TECHNICAL DESCRIPTION

The software is contained on 5¼ -inch diskette(s), double density (360K), compatible with the IBM/PC microcomputer. The diskettes are in the ASCII format.

17. SOFTWARE TECHNICAL DESCRIPTION

Software is written in;

Fortran X COBOL ____ Basic ____ Assembly ____ Other *(Specify)* ____

Software requires;

CPR Mfr. IBM PC Model(s) ____ Operating system(s) MS/PC DOS 2.1+

Minimum of 256 K bytes core. The following special features and/or additional requirements in hardware:
Two 5¼" floppy disk drives, or one 5¼" floppy disk drive and a 10 MB hard disk. Math coprocessor (8087/80287/80387) is highly recommended but is not required.

SIGNATURE OF AGENCY REPRESENTATIVE, PHONE NO., AND DATE	SIGNATURE OF NTIS REPRESENTATIVE AND DATE FORM PREPARED

COMPUTER MAGNETIC TAPE FILE PROPERTIES

01. Completion Date (Year / Month / Day)	02. Form Prepared By (Name and Phone)	03. Reel ID Number (Property Control No.)
	Vernon R. Bonner	
04. Recording Date (Year / Month / Day)	**05. File Identifier or Descriptive Title**	**06. Short Title (External Label Name)**
	HMR52, Probable Maximum Storm (Eastern United States) (for microcomputers)	HMR52
07. Source Unavailable (Year / Month / Day)	**08. Documentation** Yes [X] No [ ] Available (Enter Citation)	**09. File Position on Reel** ____ of ____

10. To Be Returned	11. Submitting Organization & Address	12. Receiving Organization & Address
Yes [ ] No [X] To Other Than The Sender	Department of Army The Hydrologic Engineering Center Corps of Engineers 609 Second Street Davis, California 95616	United States Department of Commerce National Technical Information Service 5285 Port Royal Road Springfield, Virginia 22161
13. Due Back Date (Year / Month / Day)		

14. Technical Contact(s) & Phone Number(s)

John Peters, Gary Brunner, Arlen Feldman (916) 551-1748

RECORDING SYSTEM CHARACTERISTICS

		17. No. of Tracks			18. Parity		19. Density (BPI)
EQUIPMENT MANUFACTUPER AND MODEL	15. Processing Unit: IBM PC or compatibles	7	9	Other	Odd	Even	
	16. Tape Subsystem						
RECORDING SOFTWARE	20. Operating System, Release & Version: MS DOS 2.1 or greater	22. Internal File Identifier					
	21. Utility Program or Data Base Language						

23. Characters Set (Graphics): [X] ASCII [ ] BCD [ ] Other (Specify) [ ] EBCDIC [ ] FIELDATA [ ] Non-Print Codes

24. Recorded Label (Internal Label): [ ] Header [ ] ANSI X 3.27 Standard [ ] Other [ ] Trailer [ ] FIPS Standard [X] None

FILE CHARACTERISTICS

NUMBER OF RECORDS	25. Physical / 26. Logical	27. Record Type	28. Records/Block (Blocking Factor)	29. TYPE OF FILE ORGANIZATION (Check One Box)
		[X] Fixed Length [ ] Other Than Fixed	1	[ ] One File One Reel [ ] One File Multiple Reels [X] Multiple Files One Diskette [ ] Multiple Files Multiple Diskettes

RECORD LENGTH

30. Physical: 80 [X] Bytes [ ] Chars. [ ] Words (Bits/Word)

31. Logical: [ ] Bytes [ ] Chars. [ ] Words (Bits/Word)

SUPPLEMENTAL INFORMATION

32. Use/Handling Constraints (Specify if Yes)

Yes [ ] No [X]

33. For Submitting Organization Use

The HMR52 program is provided on one 5¼" double-sided 360 KB floppy diskette containing the following: executable program file, tabular form of data from HMR No. 52, example input and output files, and implementation guide (file README.DOC).